IN THE CLAIMS:

The claims read as follows:

1. (Canceled).

2. (Previously Presented) The system of claim 4 further comprising a coating filter coupled to the coating chamber.

3. (Canceled).

4. (Currently Amended) A coating system ~~for coating a medical device~~ comprising:

a coating chamber;

a vibration source having a diaphragm exposed to the coating chamber, the vibration source configured to generate pressure waves sufficient to suspend a cage positioned in the coating chamber above the vibration source without the vibration source contacting the cage; and

a coating source, the coating source positioned to introduce coating into the coating chamber.

5. (Previously Presented) The system of claim 4 wherein the vibration source is positioned below a screen and wherein the source of coating contains a therapeutic.

6. (Canceled).

7. (Currently Amended) An apparatus for coating a medical implant comprising:

a coating chamber;

a vibration source, the vibration source adapted to suspend an implantable medical device positioned in the coating chamber above the vibration source; and

a coating source, the coating source configured to introduce coating into the coating chamber;

wherein the coating source includes a nozzle coupled to a supply of coating,

wherein the vibration source has a vibrating structure positioned within the coating chamber, the vibrating structure having ~~one or more exposed sides~~ an exposed side, wherein ~~at least one exposed side~~ the exposed side has a space between it and the coating chamber and

wherein the nozzle is positioned beneath the vibrating structure.

8. (Currently Amended) An apparatus for coating a medical device comprising:

a coating chamber;

an acoustic vibration source, the vibration source adapted to suspend an implantable medical device positioned in the coating chamber above the vibration source, the vibration source exposed to the coating chamber;

a therapeutic coating source, the therapeutic coating source configured to introduce coating into the coating chamber;

a power source coupled to the vibration source; and

a controller controlling the power source and configured to vibrate the vibration source at a predetermined frequency

~~wherein the vibration source may move independently from the coating chamber~~

and wherein the vibration source has a diaphragm positioned entirely within the coating chamber.

9.-25. (Canceled)

26. (Currently Amended) An apparatus for coating a medical implant comprising:

a coating area sized to accept medical implants for implantation within the body of a patient;

a source of therapeutic coating having an exit point in fluid communication with the coating area;

a screen positioned in the coating area; and

an acoustic vibration source positioned beneath the screen, the vibration source adapted to vibrate at a rate sufficient to lift a medical implant positioned on the screen away from the screen,

~~wherein the screen vibration source may move independently from the screen vibration source~~ and wherein the vibration source has a diaphragm that is in fluid communication with the coating area.

27. – 31. (Canceled)

32. (Previously Presented) The apparatus of claim 26 wherein the diaphragm of the vibration source is exposed to the coating area.

33. (Previously Presented) The apparatus of claim 26 wherein the exit point comprises a nozzle.

34. (Previously Presented) The apparatus of claim 26 wherein the coating area is an enclosed space.

35.-39. (Canceled)

40. (Currently Amended) An apparatus for coating a medical implant comprising:

a coating area adapted to receive medical implants for implantation within the body of a patient;

means for supplying a therapeutic coating into the coating area; and

means for suspending the medical implants in the coating area during the coating process;

wherein the means for suspending the medical implants in the coating area during the coating process comprises a vibration structure and a nozzle,

and wherein the vibrating structure has ~~one or more exposed sides~~ an exposed side, wherein ~~at least one exposed side~~ the exposed side has a space between it and the coating area.

41. (Canceled)

42. (Previously Presented) The system of claim 4 wherein the vibration source is exposed to the coating chamber.

43. (Canceled).

44. (Previously Presented) The system of claim 4 wherein the coating source is positioned above a screen in the coating chamber.

45. (Previously Presented) The system of claim 4 wherein the coating source contains a coating that covers a surface of the medical device after the medical device is removed from the coating chamber.

46. (New) A system for coating a stent comprising:

a coating chamber;

a vibration source having a diaphragm exposed to the coating chamber, the vibration source configured to generate pressure waves sufficient to suspend the stent positioned in the coating chamber above the vibration source without the vibration source contacting the stent; and

a coating source, the coating source positioned to introduce coating into the coating chamber.

47. (New) A system for coating a vena-cava filter comprising:

a coating chamber;

a vibration source having a diaphragm exposed to the coating chamber, the vibration source configured to generate pressure waves sufficient to suspend the vena-cava filter positioned in the coating chamber above the vibration source without the vibration source contacting the vena-cava filter; and

a coating source, the coating source positioned to introduce coating into the coating chamber.